

本周工作：

- 阿里答辩项目：

本周总结了阿里答辩的 PPT，并根据夏菁师姐和斐然的要求修改 PPT 和结题文档。参加阿里答辩。有两个收获，一是流场的想法，多数据源的多流场层渲染方法和流畅的异常检测，根据 zoomlevel 分层渲染三条思路。二是之前提过的看机器学习参数对于结果影响的重要性的比较，attraction 理论，甘布提到比较有实际作用。

- Minor 文章：

文章又重新修改了 video 的音频，修改了大部分的图片，并检查基金等语法错误。并于周三提交了。接下来的那个 user study 的项目还在和师姐讨论。可能需要等本文发表。

- 参观阿里城市大脑和城市学院陈老师讨论：

都深化了实时数据的实时监控的重要性。在 ASU 我也参与了一些大数据的渲染工作，使用 tile 技术来绘制效率很高。并且可分层。我认为比较适合大数据的渲染。然后分层的大屏技术应该也是比较流行的。

- 结题基金总结文档：

借此机会了解了实验室近一年来的工作，共阅读文章 10 余篇，并撰写了每篇文章的介绍，关联到城市数据。已返回。论文包括：

Xumeng Wang, Tianlong Gu, Xiaonan Luo, Xiwen Cai, Tianyi Lao, Wenlong Chen, Yingcai Wu, Jinhui Yu and Wei Chen*	A User Study on the Capability of Three Geo-based Features in Analyzing and Locating Trajectories	IEEE Transactions ITS
Yuxin Ma, Anthony K. H. Tung, Wei Wang, Xiang Gao, Zhigeng Pan, Wei Chen	ScatterNet: A Deep Subjective Similarity Model for Visual Analysis of Scatterplots	IEEE Transactions on Visualization and Computer Graphics
韩东明, 郭方舟, 潘嘉锐, 郑文庭, Xumeng Wang, Wei Chen, Jia-Kai Chou, Chris Bryan, Huihua Guan, Wenlong Chen, Rusheng Pan, Kwan-Liu Ma	面向时序数据异常检测的可视分析综述 GraphProtector: A Visual Interface for Employing and Assessing Multiple Privacy Preserving Graph Algorithms	计算机研究与发展 IEEE Transactions on Visualization and Computer Graphics (Special Issue on IEEE VAST 2018)
Zhiguang Zhou, Linhao Meng, Cheng Tang, Ying Zhao, Zhiyong Guo, Miao Xin Hu, Wei Chen	Visual Abstraction of Large Scale Geospatial Origin-Destination Movement Data	IEEE Transactions on Visualization and Computer Graphics (Special Issue on IEEE VAST 2018)
Fangzhou Guo, Tianlong Gu, Wei Chen, Feiran Wu, Qi Wang, Lei Shi, and Huamin Qu	Visual Exploration of Air Quality Data with A Time-Correlation Partitioning Tree Based on Information Theory	ACM Transactions on Interactive Intelligent Systems
Tianlong Gu, Minfeng Zhu, Wei Chen, Zhaosong Huang, Ross Maciejewski, Liang Chang	Structuring Mobility Transition with An Adaptive Graph Representation	IEEE Transactions on Computational Social Systems
Wei Chen, Jing Xia, Xumeng Wang, Yi Wang, Jun Chen, Tianlong Gu	RelationLines: Visual Reasoning of Egocentric Relations from Heterogeneous Urban Data	ACM Transactions on Intelligent Systems Technology The 26th Pacific Conference on Computer Graphics and Applications (PG 2018) (Short Paper)
Kezhi Kong, Yuxin Ma, Chentao Ye, Junhua Lu, Xiqun Chen, Wei Zhang and Wei Chen	A Visual Analytics Approach for Traffic Flow Prediction Ensembles VisComposer: A Visual Programmable Composition Environment for Information Visualization	Visual Informatics
Honghui Mei, Wei Chen, Yuxin Ma, Huihua Guan, Wangqi Hu, Deqing Li, Honghui Mei, Yi Shen, Shuang Su, Wenli Zhang, Junting Wang, Ming Zu, Wei Chen	ECharts: A Declarative Framework for Rapid Construction of Web-based Visualization	Visual Informatics
Wei Chen, Zhaosong Huang, Feiran Wu, Minfeng Zhu, Huihua Guan, and Ross Maciejewski	VAUD: A Visual Analysis Approach for Exploring Spatio-Temporal Urban Data	IEEE Transactions on Visualization and Computer Graphics
Xumeng Wang, Jia-Kai Chou, Wei Chen, Huihua Guan, Wenlong Chen, Tianyi Lao, and Kwan-Liu Ma	A Utility-aware Visual Approach for Anonymizing Multi-attribute Tabular Data	IEEE Transactions on Visualization and Computer Graphics
Jiazi Xia, Fenjin Ye, Wei Chen, Yusi Wang, Wiefeng Chen, Yuxin Ma, and Anthony K.H. Tung	LDSScanner: Exploratory Analysis of Low-Dimensional Structures in High-Dimensional Datasets	IEEE Transactions on Visualization and Computer Graphics

- 转移数据库：

我申请了另一个网口，把城市数据库迁移到了实验室闲置的一台机器上。这台机器以后可以长期开着，作为城市数据的数据库机器和大屏服务器。后面的城市大屏项目也迁移到了这台机器上。

- 大屏项目转移

下周工作：

本周语义项目前端进展很好，下周争取出个原型